

SIEMENS

DIGISCAN M

SP

System Manual

Installation Instructions

System unpacking, installation and cabling

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Register 3

Print No.: SPB7-420.812.01.03.02

Replaces: SPB7-420.201.812.01.02.02

English

Doc. Gen. Date: 11.02

66 31 142

Chapter	Page	Revision
All	All	03

Document revision level

The document corresponds to the version/revision level effective at the time of system delivery. Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

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Safety information

When carrying out the work steps and test, the product-specific safety information contained in this document, as well as the general safety information must be observed.

All texts marked with  call attention to potential risks for health or life.

Documents required

- DIGISCAN M Wiring Diagrams including Function Description SPB7-420.844.01...
- Product-accompanying documentation

Tools, meters and appliances required

Standard installation tool kit.

Prerequisites

The Installation and Start-Up of the MAMMOMAT 3000 Nova must be completed according to the appropriate SPB7-230.033... instructions.

Important notes on installation

Basic information

In some countries the image reader is installed, maintained and serviced by the local Fuji organization. For further information, contact your local Siemens marketing representative.

NOTICE

The system responsibility is always within Siemens.

If the image reader is installed by Fuji the installation certificate has to be filled out, see Page 5 - 1.

Unpacking, transport and installation

NOTICE

All components and accessories in a DIGISCAN M system, including the options, are comprised of high-quality electronic parts.

The components should be transported with extreme care using suitable transport devices.

CAUTION

Risk of injury!

The picture tube in the SIMOMED monitor (option) is vacuum parts and can implode if struck, scratched or dropped.

CAUTION

Risk of damage to property.

The hard disk drive of the image reader is structurally attached under the top cover.

Do not give any shock to the top cover of the image reader.

Unpacking

NOTICE

The person doing the unpacking may not mix up the contents of the individual cartons.

The contents of the individual cartons must be brought into the room and kept separated.

The directional markings on the crates absolutely must be observed during transport, storage and unpacking.

Because of the risk of accidents and endangerment of the contents, use only proper tools (nail puller) when unpacking the crates.

Pull out only those nails from the crate boards that have a cardboard or metal disk under the nail heads.

**CAUTION**

To avoid risk of injury, completely remove nails and dispose of them properly.

Wear safety shoes!

If the crate was also secured with metal straps, take extra care when cutting them; they can lash back unexpectedly.

In such situations, there is particular risk of accident for eyes!

Transport routes

The transport routes should be selected so that the image reader components are subjected to as little stress as possible caused by vibration and dust.

The route should also be selected so that a minimum door opening width of 1100 mm is maintained.

NOTE

If the door opening is narrower than 1100 mm, the image reader has to be unpacked outside the room.

Cleaning

The units may only be wiped down with a cloth moistened with a cleaning agent. Sprayed water is not permitted.

For further information, see product-accompanying documentation.

Overview of DIGISCAN M (standard system)

An overview of the DIGISCAN M system is provided below. The options of the standard system are appropriately identified.

For detailed information how to arrange the components, see DIGISCAN M Planning Guide, SPB7-420.891.01... and product-accompanying documentation.

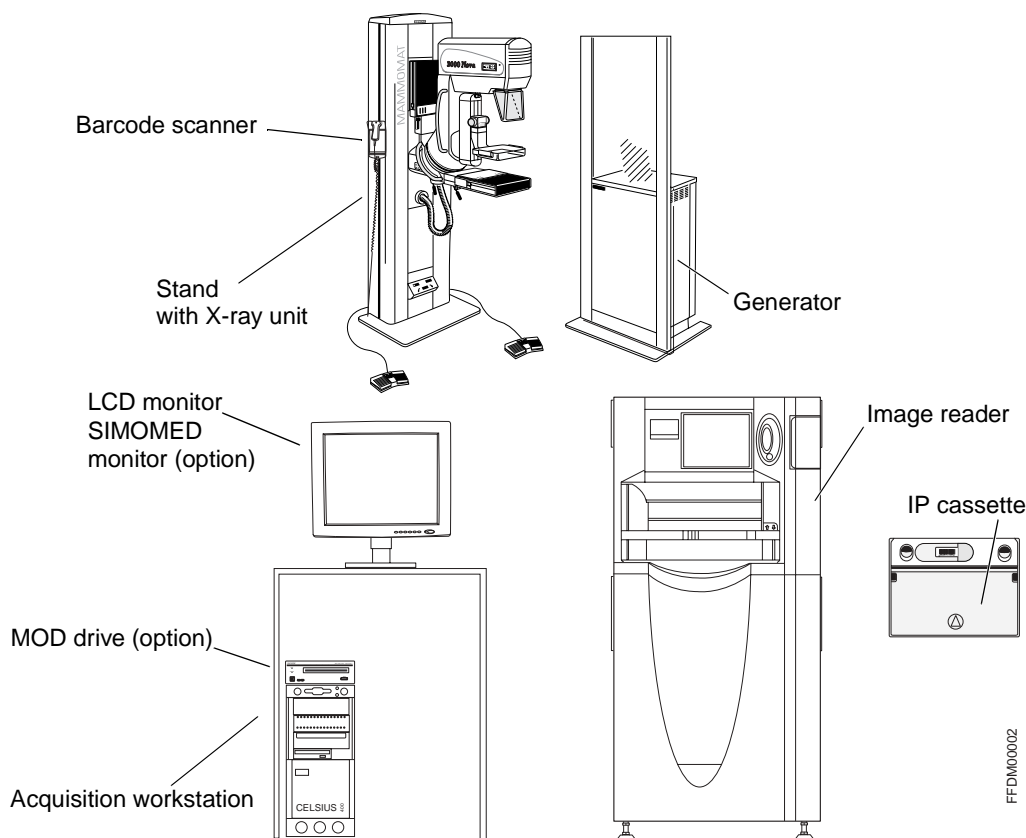


Fig. 1

Additional parts to the DIGISCAN M system

NOTE

For actual system options, see price book.

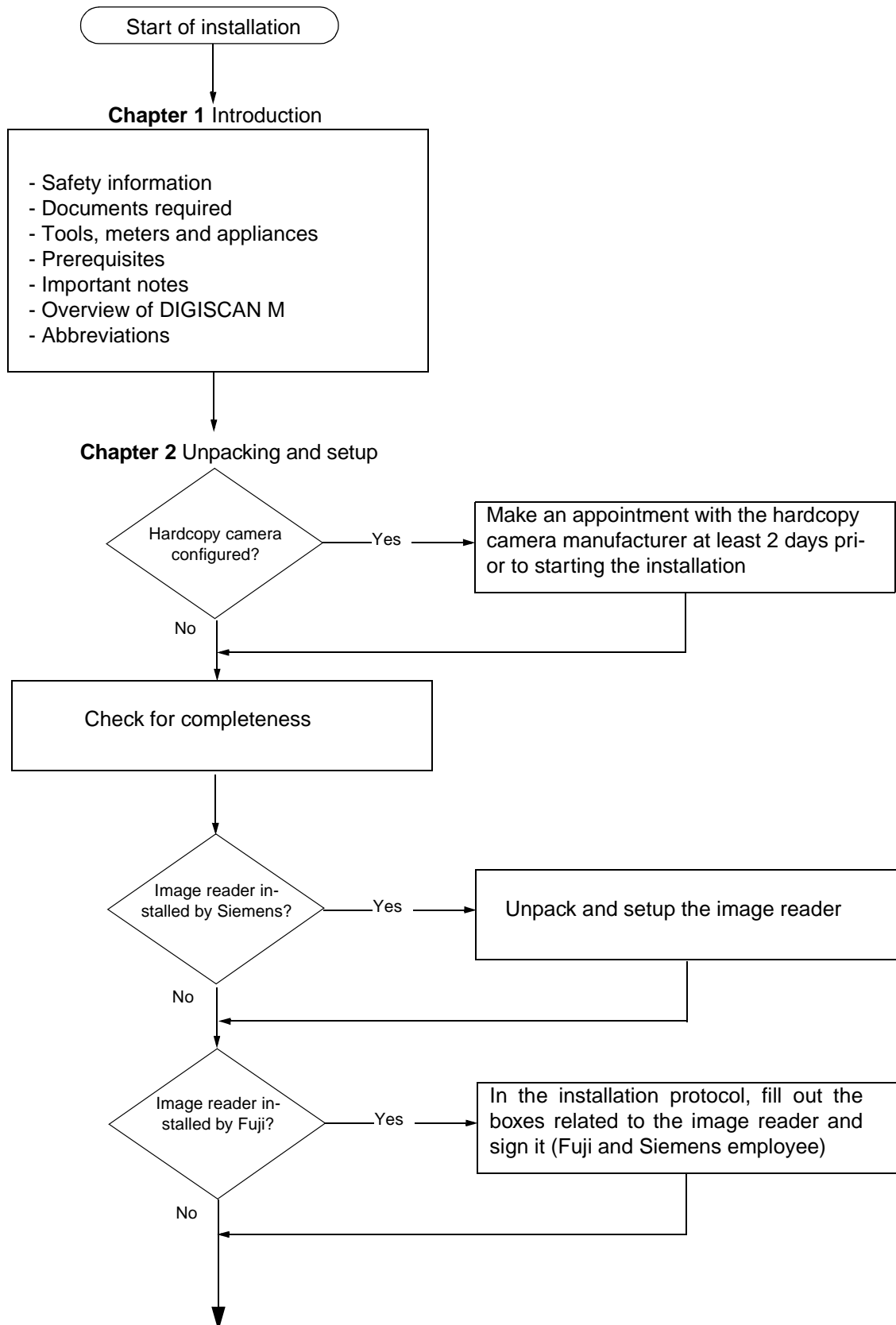
- Viewing station
- Archive system
- Hardcopy camera

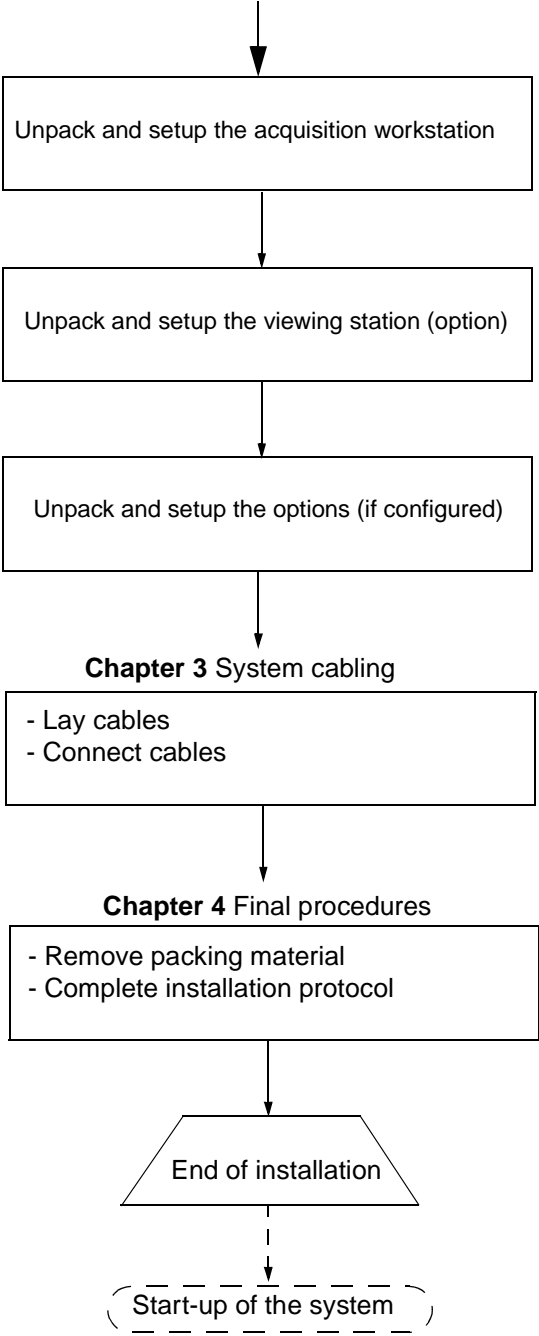
NOTE

Use only released hardcopy cameras or a hardcopy camera that can receive DICOM print, has a resolution of 50x50 μm , density ≥ 3.5 and can print 18x24 and 24x30 film format.

- HIS/RIS
- Communication switch

Installation sequence





Abbreviations

AWS	= <u>A</u> cquisition <u>W</u> ork <u>s</u> tation
IP	= <u>I</u> maging <u>P</u> late
LUT	= <u>L</u> ook <u>u</u> p <u>T</u> able
MOD	= <u>M</u> agneto <u>O</u> ptical <u>D</u> isc
SMPTE	= <u>S</u> ociety of <u>M</u> otion <u>P</u> icture and <u>T</u> ele <u>v</u> ision <u>E</u> ngineers

Important information for the Siemens employee

If a hardcopy camera is configured, an employee of the hardcopy camera manufacturer must be present during startup of the DIGISCAN M system; this should be approximately 2 days after start of installation.

This employee will have the following tasks:

- Connecting the hardcopy camera to the network.
- Setting the hardcopy camera input to a linear LUT and the optical density to max.
- Checking image transfer together with the Siemens employee.
- Measuring the optical density values of the ten gray steps of the SMPTE test pattern together with the Siemens employee.
- Performing any adaptations on the hardcopy camera so that the reference values (optical density) of the SMPTE test pattern can be achieved.

NOTE

To avoid delays, it is recommended that the hardcopy camera manufacturing company is contacted at this time to make an appointment.

Checking for completeness



Check the DIGISCAN M system for completeness according to the packing lists.

Image reader

☐

Acquisition workstation

☐

Viewing station (option)

☐

Installation material

☐

Options

☐

Unpacking and setup of the acquisition workstation

Unpacking

- Overseas only: unpack the acquisition workstation and accessories from the crate.
- Unpack accessories from the crate.
- Do not remove the protective film.

Transport

- Move the acquisition workstation and accessories over the planned transport route using suitable transport devices to the installation site.
- Remove the protective film from the acquisition workstation.

Setup

- Connect the computer, monitor, keyboard, mouse and barcode scanner according to DIGISCAN M Wiring Diagrams including Function Description, SPB7-420.844.01... .
- Mount the holder for the barcode scanner on the MAMMOMAT 3000 Nova stand at a height of 125 ± 5 cm. Secure the cable in the holder to prevent the barcode scanner from hitting the floor if dropped.

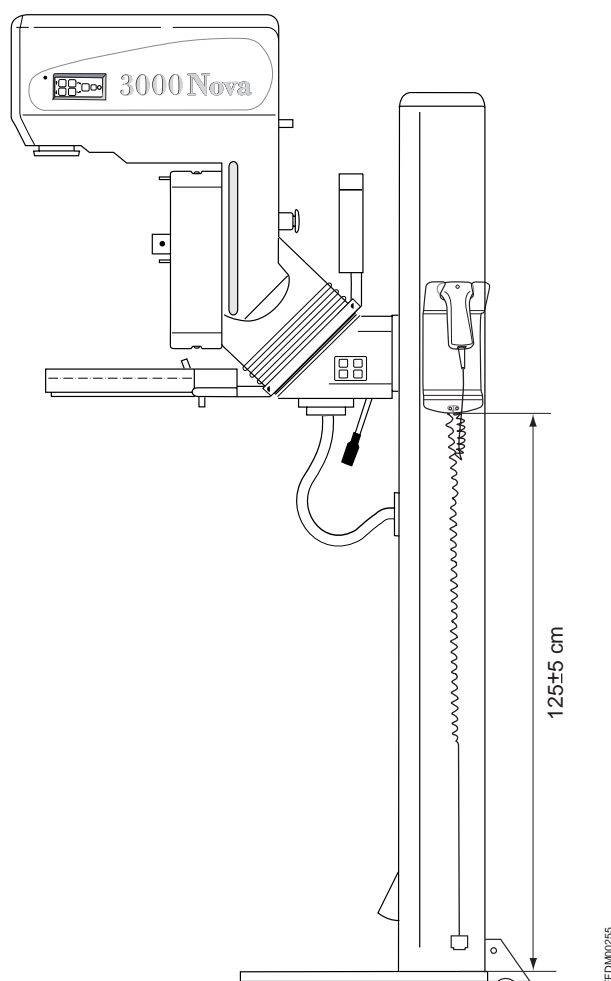


Fig. 1

Unpacking and setup of the image reader

General remarks

The parts of the image reader are packed as following:

- 1 pallet containing the machine main body.
- 1 pallet containing accessory parts (the light-collecting guide assemblies, documentation, boards, diskettes etc.).
- 1 separately shipped carton containing cassettes and IPs.

Preparation



Sensitive parts.

Special care measures must be observed when the parts of the image reader are unpacked.

The parts may only be unpacked shortly before installing the components because for this.

Some preparations may however be done:

- Remove the top protective cover and the crate pieces. Do not remove the moisture-proof sheet.

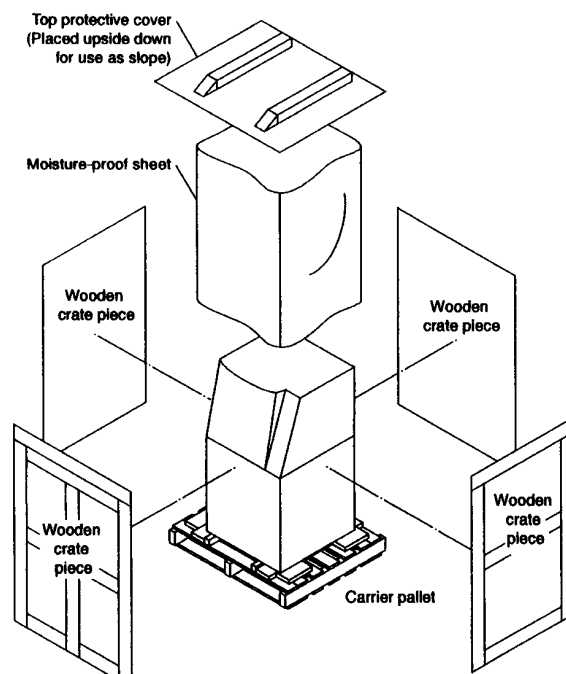


Fig. 2

- Dispose of the crate pieces. Do not dispose of the top protective cover, this is required for transport of the image reader.
- Remove the carton with the separately packed accessory parts, do not unpack them.

Transporting the parts to the installation site

NOTICE

Transport on the casters is permitted only for short distances.

Transporting the image reader across streets and over routes on the casters installed on the component is not allowed.



CAUTION

Sharp nails.

Risk of injury.

Pull all nails from the carrier pallet.

- Move the image reader on the carrier pallet to the installation site using a lift truck.
- Remove the moisture-proof sheet (Fig. 2).
- Remove the four clamps and raise the adjustable fees of the machine all the way up.

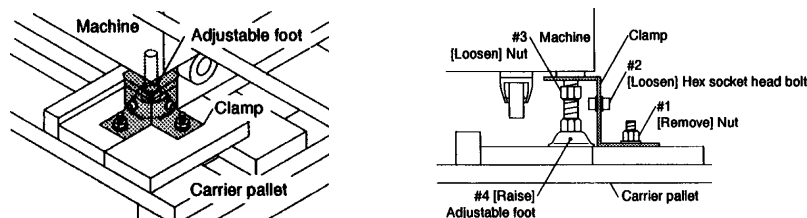


Fig. 3

- Nail the top protective cover onto the carrier pallet (on the rear side of the machine).

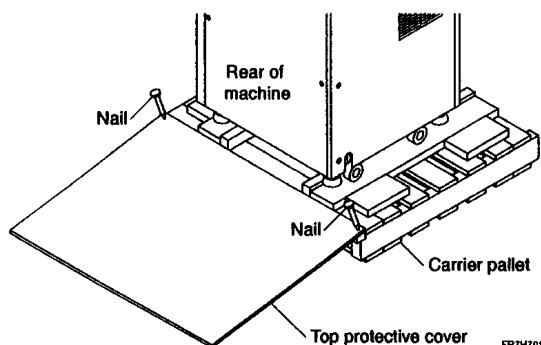


Fig. 4

- Lower the machine from the carrier pallet.

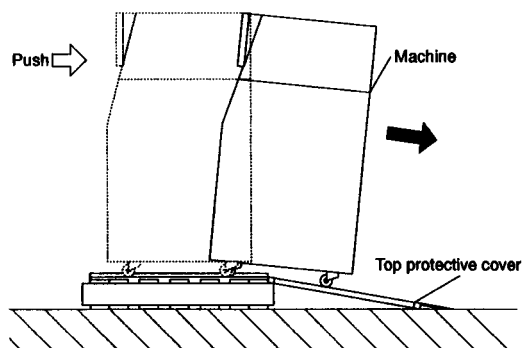


Fig. 5

Unpacking and setup of the viewing station (option)

NOTE

With the standard system, the viewing station is equipped with two monitors.

Unpacking / Transport

- If present, remove the protective film from the individually packaged items only at the installation site.
- Unpack the viewing station table (option) from the crate and transport it to the installation site.
- Unpack the monitors.
- Carry the monitors to the installation site and place them on the viewing station table.
- Carry the computer, keyboard, MOD drive (option), mouse, as well as the cables for the viewing station to the installation site.
- Place the computer and MOD drive (option) on the shelf according to Fig. 6.
- Remove the remaining protective film.

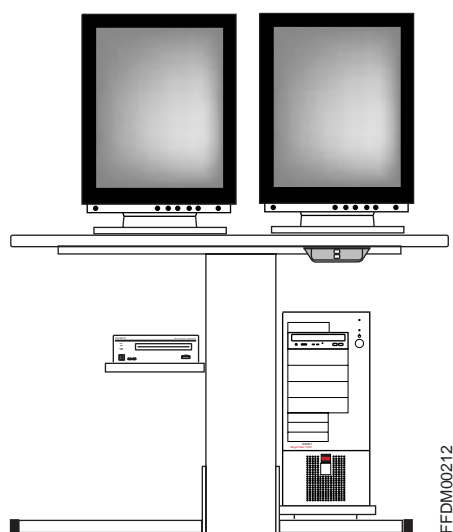


Fig. 6

NOTE

For details on your type of viewing station, see product-accompanying documentation.

NOTE

The documentation for the table (option) is marked Opdima®.

**CAUTION**

Vertically adjustable tabletop.

Risk of squeezing of the computer and the MOD drive (option).

Make sure not to squeeze the computer or the MOD drive (option) when the tabletop is vertically adjusted.

Unpacking and setup of the options

MOD drive (option to acquisition workstation)

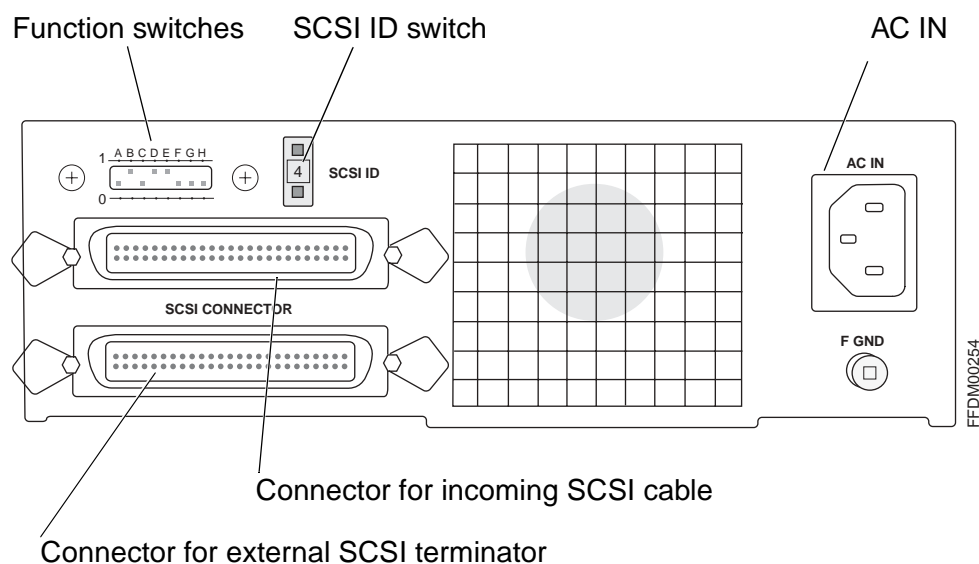


Fig. 7

- Set SCSI ID switch to 4.
- Set the function switches accordingly:

Switch	Setting	Function
A	0	SCSI parity check is enabled
B	1	Peripheral device type 00H (Direct Access Device)
C	0	Enable write cache
D	1	Fast SCSI compatible
E	1	All write operations are verified (with a verify pass)
F	0	The internal terminator is OFF
G	0	Inserting a disk causes the spindle motor to rotate
H	0	Disk cartridge can be ejected by pressing the EJECT button

- Connect the power supply cable, the external SCSI terminator and the SCSI cable.

Communication switch (option)

Unpack the communication switch and mount it on the MAMMOMAT 3000 Nova or on the wall.

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Laying and connecting the cables

Lay and connect the cables according to DIGISCAN M Wiring Diagrams including Function Description, SPB7-420.844.01... .

NOTICE

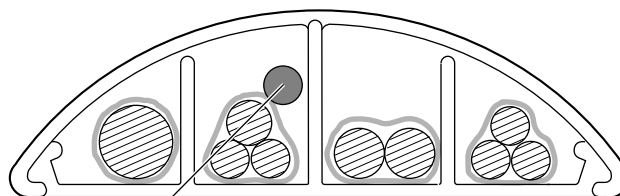
Risk of stumbling and damage to property.

Use cable ties or cable ducts to arrange the cables in an organized way along the floor or wall.

Cable duct

Lay cable X205-X2 (cable between MAMMOMAT 3000 Nova stand and MAMMOMAT 3000 Nova generator) in the cable duct.

- Disconnect the printer cable (if connected) from the MAMMOMAT 3000 Nova generator.
- Open the cable duct between the generator and the stand and lift up the cable (if present).
- Place the new cable with connectors marked X205 and X2 in the cable duct between the generator and the stand / biopsy controller. Use compartment according to the figure below.



Cable X205-X2

Fig. 1 Cable duct compartments

FFDM00049

Cable connections

- Mount connector DB9F and connector marked “SCANNER” to one of the cable holders according to Fig. 2.

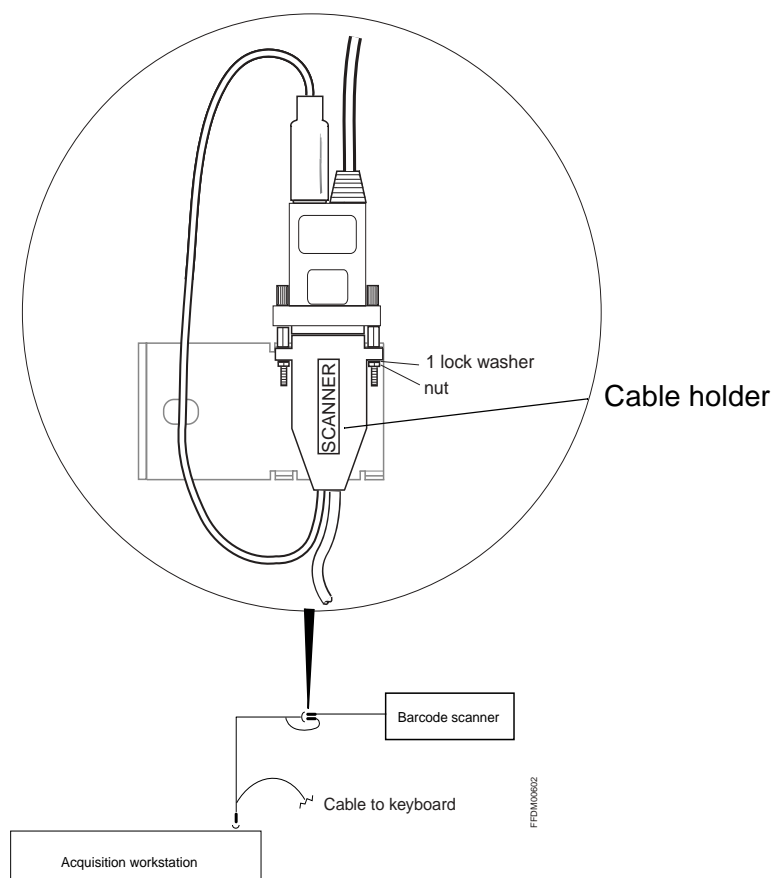


Fig. 2

- Fit the cable holder to the cable outlet cover with a new longer screw (16 mm) and two washers.

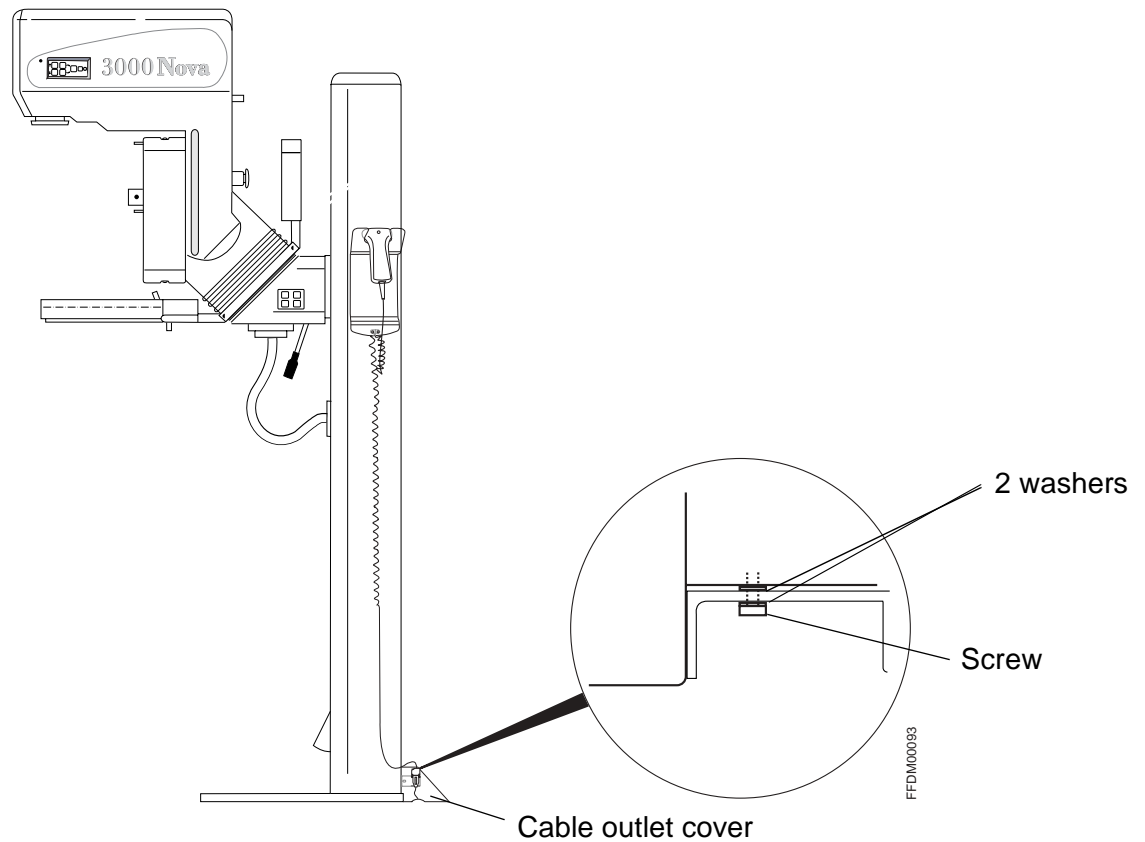


Fig. 3 Top-down view cable holder

**CAUTION****Risk of short circuit!**

The cable connection X205-X205 shall be placed outside the cable outlet cover.

- The connectors marked X205 can be fasten to the other side of the cable outlet cover or not, see alternatives in Fig. 4.

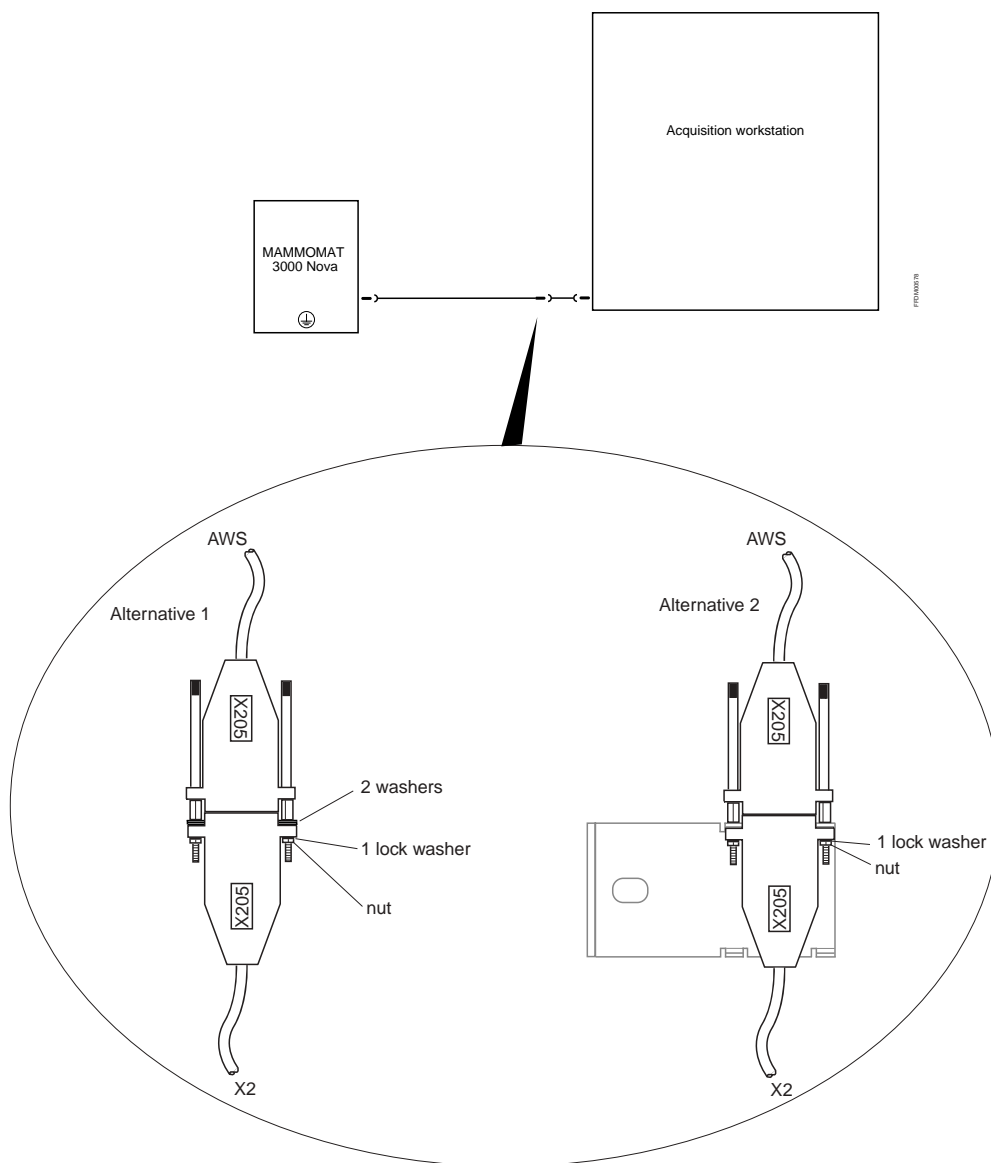


Fig. 4

- If a communication switch is installed (option), connect the cables according to Fig. 5.

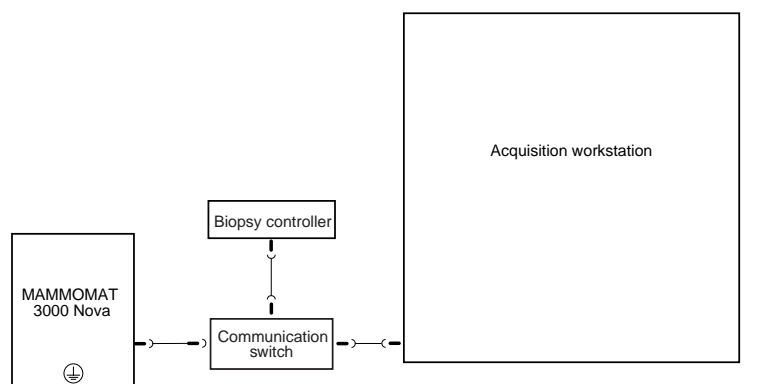


Fig. 5

Ferrite cores

- Mount ferrite cores on the acquisition workstation-image reader cable and the acquisition workstation-network cable. The ferrite cores shall be placed 100-150 mm from the connectors according to Fig. 6. Fasten with cable ties.

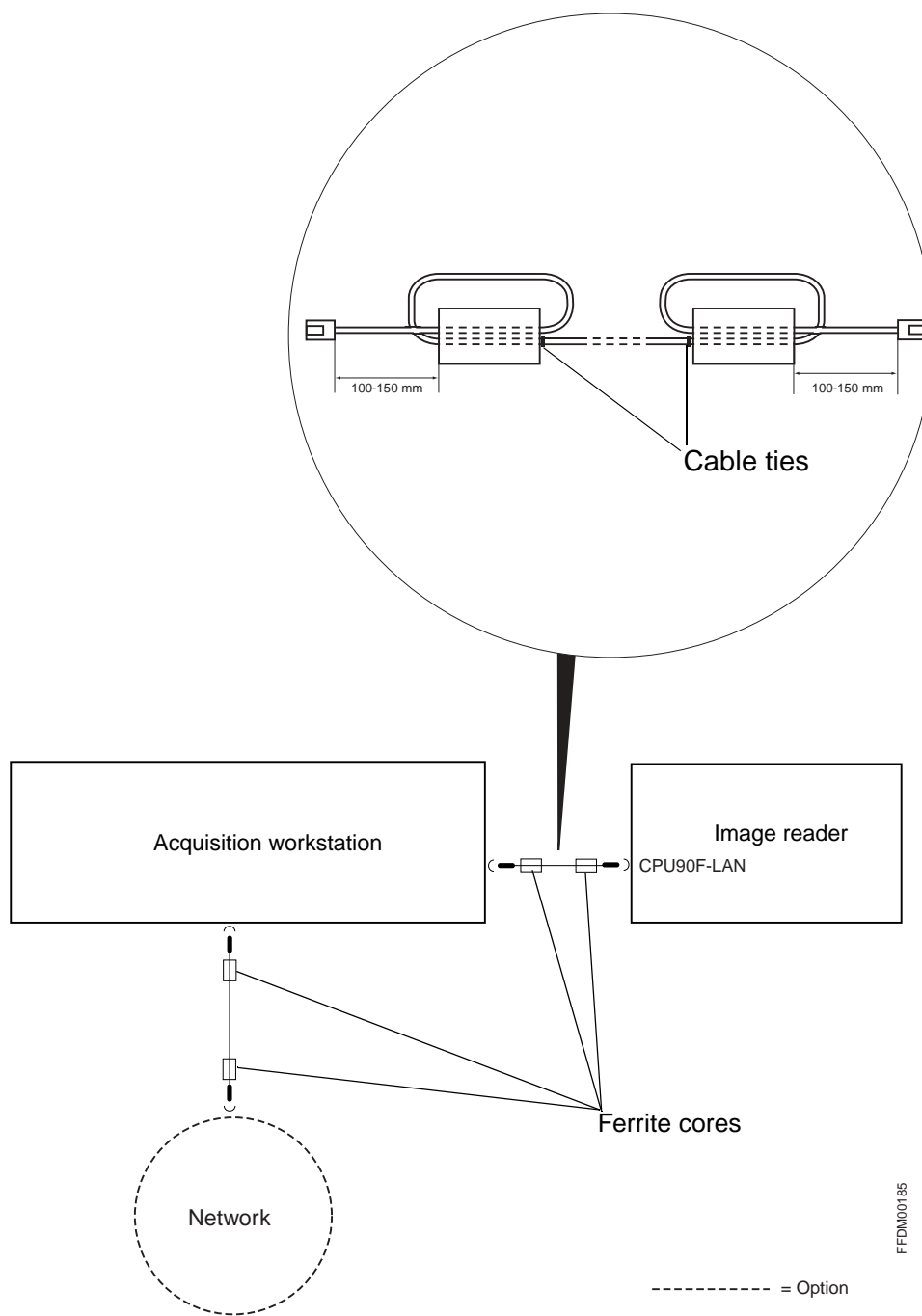


Fig. 6

Remaining work steps

Remove and dispose of all packaging materials from the components except for the materials from the image reader, cassettes and IPs (this is described in DIGISCAN M Start-up, SPB7-420.815.01...).

Completing the installation protocol



If the image reader is installed by Fuji, the installation protocol on Page 5 - 1 must be completed and signed by the responsible person from Fuji.

If problems or inconsistencies arise during the installation, this must be noted in the installation protocol.

NOTE

There may not be any empty blocks in the completed certificate. Boxes in which no entry needs to be made should be completed with n.a. (not applicable).

Use a ballpoint pen (not a pencil) to fill out the protocol.

To make corrections, cross out incorrect entries and write in the correct value write in the date and your initials next to it.

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NOTE

Only to be used if the image reader is installed by Fuji or if problems or inconsistencies arise during the installation.

System model: DIGISCAN M
 Order No.:
 Customer:
 Installation site:
 Installation team:
 Start of installation:
 End of installation:

	Mechanical installation completed without problems?			Supported by subcontractor or Fuji personnel? (signature next page)
	yes	no	System component not configured	yes
Acquisition workstation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Image reader	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Monitor SIMOMED	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acquisition workstation MOD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Communication switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Viewing station	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Viewing station table	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hardcopy camera/Printer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Archive system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HIS/RIS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The system was installed in accordance with the described installation instructions regarding arrangement of the components, cabling etc. All safety-relevant work steps were performed in accordance with the applicable and supplied Installation Instructions:

If "no" has been checked, give reason:

Location, Date

Responsible subcontractor
or Fuji representative

Responsible Project
Manager

Name in block letters

Name in block letters

Regarding the pre installation work that was performed, I was:

Very satisfied

Satisfied

Not satisfied

Not applicable

☐☐☐☐

What work steps were also performed?

NOTE

**File a copy in Register 9 of the System Manual
"Certificates" at the corresponding site.**

Page	Chapter	Change
1-1	Unpacking, transport and installation	First caution only applies to SIMOMED monitor (option).
1-1	Basic Information	Text added.
1-3	Additional parts to the DIGISCAN M system	Text changes.
1-4	Installation sequence	The word "recommendation" is removed in first rhomb below "Chapter 2 Unpacking and setup".
2-6	Unpacking and setup of the viewing station (option)	First note is new.
2-7	Communication switch (option)	New chapter.
3-2	Cable connections	Picture changed in point 2 (barcode decoder removed and DB connector changed).
3-4	Cable connections	Point 1 and 2 are completely removed.
3-5	Cable connections	Fig. 5 is changed.
3-6	Cable connections	Fig. 6 is new.
5-1	Installation protocol	Viewing station MOD is removed. Communication switch is added.

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